- 1. (Reiterated) An isolated polypeptide comprising an amino acid sequence selected from the group consisting of:
 - a) a polypeptide comprising an amino acid sequence of SEQ/ID NO:1,
 - b) a naturally occurring polypeptide comprising an amino acid sequence at least 90% identical to an amino acid sequence of SEQ ID NO:1,
 - c) a biologically active fragment of a polypeptide having an amino acid sequence of SEQ ID NO:1, and
 - d) an immunogenic fragment of a polypeptide having an amino acid sequence of SEQ ID NO:1.
 - 2. (Reiterated) An isolated polypeptide of claim 1, having a sequence of SEQ ID NO:1.
 - 3. (Reiterated) An isolated polynucleotide encoding a polypeptide of claim 1.
 - 4. (Reiterated) An isolated polynycleotide of claim 3, having a sequence of SEQ ID NO:2.
- 5. (Reiterated) A recombinant polynucleotide comprising a promoter sequence operably linked to a polynucleotide of claim.
 - 6. (Reiterated) A cell transformed with a recombinant polynucleotide of claim 5.
 - 8. (Reiterated) A method for producing a polypeptide of claim 1, the method comprising:
 - a) culturing a cell under conditions suitable for expression of the polypeptide, wherein said cell is transformed with a recombinant polynucleotide, and said recombinant polynucleotide comprises a promoter sequence operably linked to a polynucleotide encoding the polypeptide of claim 1, and
 - b) recovering the polypeptide so expressed.
 - 9. (Reiterared) An isolated antibody which specifically binds to a polypeptide of claim 1.

- 10. (Reiterated) An isolated polynucleotide comprising a sequence selected from the group consisting of:
 - a) a polynucleotide comprising a polynucleotide sequence of SEQ D NO:2,
 - b) a naturally occurring polynucleotide comprising a polynucleotide sequence at least 90% identical to a polynucleotide sequence of SEQ ID NO:2,
 - c) a polynucleotide having a sequence complementary to a polynucleotide of a),
 - d) a polynucleotide having a sequence complementary to a polynucleotide of b) and
 - e) an RNA equivalent of a)-d).
- 11. (Reiterated) An isolated polynucleotide comprising at least 60 contiguous nucleotides of a polynucleotide of claim 10.
- 12. (Reiterated) A method for detecting a target polynucleotide in a sample, said target polynucleotide having a sequence of a polynucleotide of claim 10, the method comprising:
 - a) hybridizing the sample with a probe comprising at least 20 contiguous nucleotides comprising a sequence complementary to said target polynucleotide in the sample, and which probe specifically hybridizes to said target polynucleotide, under conditions whereby a hybridization complex is formed between said probe and said target polynucleotide or fragments thereof, and
 - b) detecting the presence or absence of said hybridization complex, and, optionally, if present, the amount thereof.
- 13. (Reiterated) A method of claim 12, wherein the probe comprises at least 60 contiguous nucleotides.
- 14. (Reiterated) A method for detecting a target polynucleotide in a sample, said target polynucleotide having a sequence of a polynucleotide of claim 10, the method comprising:
 - a) amplifying said target polynucleotide or fragment thereof using polymerase chain reaction amplification, and

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- b) detecting the presence or absence of said amplified target polynucleotide or fragment thereof, and, optionally, if present, the amount thereof.
- 15. (Reiterated) A composition comprising a polypeptide of claim 1 and a pharmaceutically acceptable excipient.
- 16. (Reiterated) A composition of clars 15, wherein the polypeptide has an amino acid sequence of SEQ ID NO:1.
- 17. (Reiterated) A method for treating a disease or condition associated with decreased expression of functional HTAP, comprising administering to a patient in need of such treatment the composition of claim 15.
- 18. (Reiterated) A method or screening a compound for effectiveness as an agonist of a polypeptide of claim 1, the method comprising:
 - a) exposing a sample comprising a polypeptide of claim 1 to a compound, and
 - b) detecting agonist activity in the sample.
- 44. (New) A method for screening a compound for effectiveness as an antagonist of a polypeptide of claim 1, the method comprising:
 - a) exposing a sample comprising a polypeptide of claim 1 to a compound, and
 - b) detecting antagonist activity in the sample.
- 45. (New) A method of screening for a compound that specifically binds to the polypeptide of claim 1, said method comprising the steps of:
 - a) combining the polypeptide of claim 1 with at least one test compound under suitable conditions, and
 - b) detecting binding of the polypeptide of claim 1 to the test compound, thereby identifying a compound that specifically binds to the polypeptide of claim 1.



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46. (New) A method of screening for a compound that modulates the activity of the polypeptide of claim 1, said method comprising:

- a) combining the polypeptide of claim 1 with at least one test compound under conditions permissive for the activity of the polypeptide of claim 1,
- b) assessing the activity of the polypeptide of claim 1 in the presence of the test compound, and
- c) comparing the activity of the polypeptide of claim 1 in the presence of the test compound with the activity of the polypeptide of claim 1 in the absence of the test compound, wherein a change in the activity of the polypeptide of claim 1 in the presence of the test compound is indicative of a compound that modulates the activity of the polypeptide of claim 1.

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